



May 9, 2014

Pam King
Washington Holdings
600 University Street, Suite 2820
Seattle, WA 98101

RE: Water Quality Testing, EPA Tenant Improvement Project
Park Place Building
Floor 16
1200 6th Avenue
Seattle, Washington

RGA Job# WAHLD35088

On May 6, 2014, Russell Browne, Industrial Hygienist for RGA Environmental, Inc. (RGA) conducted drinking water testing for lead at the above captioned site. Testing conducted in accordance with EPA-812-B-94-002 was conducted to collect samples from floor 16 at two locations where previous testing found elevated lead levels. The purpose of the testing was to re-evaluate the two drinking water sources following flushing of the water sources. Russell Browne was escorted by a security guard and building engineers from the Park Place building.

SAMPLING PROCEDURES

A total of four (4) drinking water samples were collected during the sampling event. Samples were collected in sample bottles provided by the Aquatic Research, Inc. (250 ml, polyethylene with nitric acid preservative). Samples were analyzed for lead in drinking water using EPA Method 200.8.¹ Drinking water samples were collected at the wall tap for the refrigerator ice maker and the cold water supply line for the "Grab and Go" Cafeteria sink.

The sampling protocol for water source for the refrigerator's ice maker, and the sink in the "Grab & Go" Cafeteria (service area sink) consisted of a "first draw" sample (first water out of the tap following at least 8 hours of non-use, the lines had been flushed the previous evening) and a "secondary draw" sample (water collected after 30 seconds of flushing).

SAMPLE RESULTS

Table 1 below presents the sample results for lead samples collected on May 6th, 2014.

¹ The water samples collected were submitted within two hours of collection to Aquatic Research, Inc. (lead) in Seattle, Washington for analysis.

Table 1—Lead Water Sample Results – May 6, 2014

Location	SAMPLE ID	Lead (Pb) µg/l)	Result
FLOOR 16			
Break Room Refrigerator	16-BRR-FD-R-57	10.0	Pass
	16-BRR-SD-R-58	18.0	Action Required
Service Area (Grab and Go) Sink	16-SA-FD-R-59	<1.0	Pass
	16-SA-SD-R-60	<1.0	Pass
EPA Standard*		0 AL: 15 µg/L	

*EPA Drinking Water Maximum Contaminant Levels

BRR=Break Room Refrigerator

FD=First Draw

SA=Service Area (Floor 16 Only)

SD=Second Draw

R =Retest

CONCLUSIONS

Two of the four water samples collected contained no detectable concentrations of lead (above 1 µg/L). One of the samples contained lead concentrations between 1 and 15 µg/L. No remedial or mitigation action is required for locations with sample results below the Drinking Water action level. One sample was above the action level. The one sample above the action level was the second draw sample collected from the 16th floor Service area Refrigerator water supply tap). Water from this source should not be used until the source of lead is mitigated.

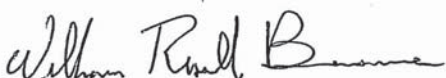
LIMITS OF SURVEY

This report does not represent all conditions at the subject site as it only reflects the information gathered from specific locations. Observation or sampling of other work areas was not within the scope of RGA's work and was not performed.

This report was prepared pursuant to the contract RGA has with the client. Unauthorized reliance on or use of this report, including any of its information or conclusions, will be at third party's risk. For the same reasons, no warranties or representations, expressed or implied in this report, are made to any such third party.

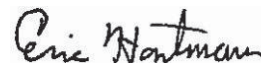
RGA appreciates the opportunity to provide you with technical support on this project. If you have any questions, please contact the undersigned at 206-281-8858.

Report Prepared by,



Russell Browne
Industrial Hygienist
RGA Environmental, Inc.

Report Reviewed by,



Eric Hartman, CIH
Senior Project Manager
RGA Environmental, Inc.

Attachments:

Lab Reports

Sample Location Maps



IEH - AQUATIC RESEARCH
LABORATORY & CONSULTING SERVICES
3927 AURORA AVENUE NORTH, SEATTLE, WA 98103
PHONE: (206) 632-2715 FAX: (206) 632-2417

CASE FILE NUMBER:	MIS032-77	PAGE 1
REPORT DATE:	05/07/14	
DATE SAMPLED:	05/06/14	DATE RECEIVED: 05/06/14
FINAL REPORT, LABORATORY ANALYSIS OF SELECTED PARAMETERS ON WATER		
SAMPLES FROM RGA ENVIRONMENTAL		

CASE NARRATIVE

Four water samples were received by the laboratory in good condition and analyzed according to the chain of custody. No difficulties were encountered in the preparation or analysis of these samples. Sample data follows while QA/QC data is contained on the subsequent page.

SAMPLE DATA

SAMPLE ID	LEAD (ug/L)
16-BRR-FD-R-57	10.0
16-BRR-SD-R-58	18.0
16-SA-FD-R-59	<1.0
16-SA-SD-R-60	<1.0



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QA/QC DATA

QC PARAMETER	LEAD (ug/L)
METHOD	EPA 200.8
DATE ANALYZED	05/07/14
REPORTING LIMIT	1.0
DUPLICATE	
SAMPLE ID	16-SA-SD-R-60
ORIGINAL	<1.0
DUPLICATE	<1.0
RPD	NC
SPIKE SAMPLE	
SAMPLE ID	16-SA-SD-R-60
ORIGINAL	<1.0
SPIKED SAMPLE	46.7
SPIKE ADDED	50.0
% RECOVERY	93.40%
QC CHECK	
FOUND	48.8
TRUE	50.0
% RECOVERY	97.60%
BLANK	<1.0

RPD = RELATIVE PERCENT DIFFERENCE.
NA = NOT APPLICABLE OR NOT AVAILABLE.
NC = NOT CALCULABLE DUE TO ONE OR MORE VALUES BEING BELOW THE DETECTION LIMIT.
OR = RECOVERY NOT CALCULABLE DUE TO SPIKE SAMPLE OUT OF RANGE OR SPIKE TOO LOW RELATIVE TO SAMPLE CONCENTRATION.

SUBMITTED BY:

Damien Gadowski

Damien Gadowski
Project Manager

WAHLD35088 1072

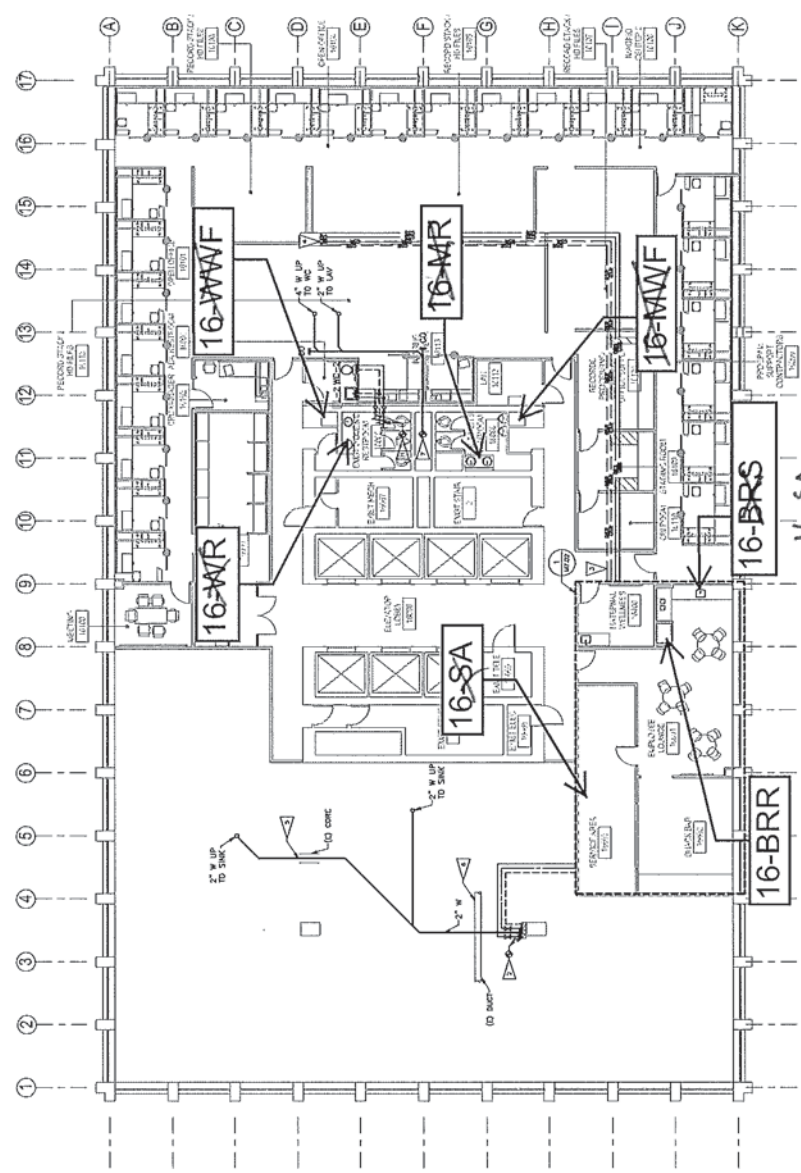
9/6/14

SHEET NOTES

1. SLOPE ALL WASTE PIPING 1/4" PER FOOT.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO STARTING CONSTRUCTION.
3. NEW WORK OCCURS IN OCCUPIED AREA. COORDINATE WITH UNITS BEFORE BEGINNING WORK.
4. EXTEND EXISTING FIRE SUPPRESSION SYSTEM TO PROVIDE PROTECTION TO NEW WORK. FIELD VERIFY EXISTING SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

FLAG NOTES

- CONNECT NEW 3/4" HD, 1-1/4" OD AND 2" W TO EXISTING SERVICE.
- CONNECT NEW 1" HD, 1-1/4" OD, 2" W AND 4" W TO EXISTING SERVICE. VERIFY POC LOCATION IN FIELD.
- 2-1/2" EDS AND GSR UNITS UP TO DC-1 AND DC-2 ON THE FLOOR.
- NEW WASTE PIPING TO UNITS 1 AND 2. NEW WASTE PIPING TO UNITS 1 AND 2. NEW WASTE PIPING TO UNITS 1 AND 2.
- ROUTE WASTE PIPING THROUGH (O) BEAM POTENTIAL.
- NEW WASTE PIPING TO UNITS 1 AND 2. NEW WASTE PIPING TO UNITS 1 AND 2. NEW WASTE PIPING TO UNITS 1 AND 2.
- POSSIBLE INTERFERENCE WITH NEW WASTE PIPING. RECOMMEND TO ACCOMMODATE THE SLOPE OF THE PIPING.
- NEW WASTE PIPING TO UNITS 1 AND 2. NEW WASTE PIPING TO UNITS 1 AND 2. NEW WASTE PIPING TO UNITS 1 AND 2.
- POC LOCATION IN FIELD. VERIFY EXISTING WASTE RISER. VERY



Both PRE + Post
16-SA.

EPA - REGION 10

1200 6th Ave.
SEATTLE 98101-3100
WASHINGTON, WA 98101

Gensler

HARGIS
Hargis Engineers, Inc.
605 Second Street, Suite 1000
Seattle, WA 98101
(206) 461-1100
www.hargisengineers.com

Rev	Description	By	Check
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Project Name
EPA - REGION 10

Project Number
201701000

Description
PLUMBING PLAN -
16TH FLOOR

Scale
1/8" = 1'-0"

M02.16

10/15/2014

3/7/2013 12:05:55 PM